

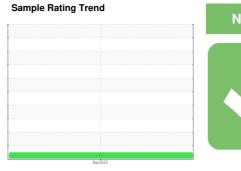
OIL ANALYSIS REPORT

Closter FREIGHTLINER 2448

Component

Diesel Engine

Fluid



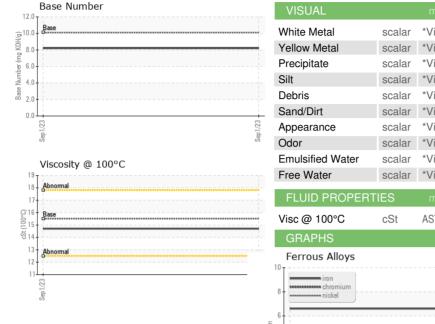


CIRRAL TAR 15W/40 CURER C 2 LV (11)						
GIBRALTAR 15W/40 SUPER S-3 LX (11)					Sep2023	
DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history
Recommendation	Sample Number		Client Info		WC0831047	
Resample at the next service interval to monitor.	Sample Date		Client Info		01 Sep 2023	
Wear	Machine Age	hrs	Client Info		0	
All component wear rates are normal.	Oil Age	hrs	Client Info		0	
Contamination	Oil Changed		Client Info		Changed	
There is no indication of any contamination in the	Sample Status				NORMAL	
oil.	CONTAMINATIO	V	method	limit/base	current	history
Fluid Condition The BN result indicates that there is suitable	Fuel		WC Method	>5	<1.0	
alkalinity remaining in the oil. The condition of the	Glycol		WC Method		NEG	
oil is suitable for further service.	WEAR METALS		method	limit/base	current	history
	Iron	ppm	ASTM D5185m	>80	7	
	Chromium	ppm	ASTM D5185m	>5	<1	
	Nickel	ppm	ASTM D5185m	>2	0	

Sample Number		Ollerit IIIIO		WC0031047		
Sample Date		Client Info		01 Sep 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
·						
CONTAMINATIO	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	7		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm		>30	2		
Lead	ppm	ASTM D5185m	>30	0		
Copper	ppm	ASTM D5185m		<1		
Tin	ppm	ASTM D5185m	>5	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
	ррпп	710 TWI DOTOOIII				
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m	66	64		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	1000	791		
Calcium	ppm	ASTM D5185m	1050	1160		
Phosphorus	ppm	ASTM D5185m	1150	983		
Zinc	ppm	ASTM D5185m	1270	1212		
Sulfur	ppm	ASTM D5185m		3499		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5		
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	8.2		

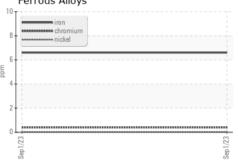


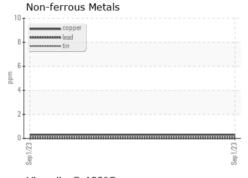
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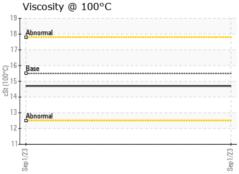


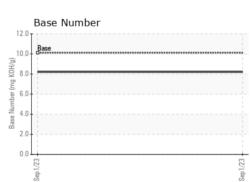
VISUAL		method	limit/base	current	history1	history2
					111010171	111010172
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FILIIN PROPERT	TES	mothod	limit/basa	current	history1	history?
FLUID PROPERT	TES	method	limit/base	current	history1	history2

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Visc @ 100°C	cSt	ASTM D445	15.5	14.7		













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10670955

: WC0831047 : 05964404 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Sep 2023 : 29 Sep 2023

Diagnosed Diagnostician : Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

INTERSTATE WASTE-CLOSTER

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Contact: Tony Gagliano

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F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)